

Cumulative Contents

Information for Contributors

vii

Regular Papers

Synthetic model peptides for apolipoproteins. I.
Design and properties of synthetic model peptides for the amphipathic helices of the plasma apolipoproteins

R. Brasseur, B. Vanloo, R. Deleys, L. Lins, C. Labeur, J. Taveirne, J.-M. Ruysschaert and M. Rosseneu (Belgium)

1

Synthetic model peptides for apolipoproteins. II.
Characterization of the discoidal complexes generated between phospholipids and synthetic model peptides for apolipoproteins

J. Corijn, R. Deleys, C. Labeur, B. Vanloo, L. Lins, R. Brasseur, J. Baert, J.M. Ruysschaert and M. Rosseneu (Belgium)

8

Interleukin-1 increases 15-hydroxyeicosatetraenoic acid formation in cultured human endothelial cells

S. López, L. Vila, F. Breviario and C. De Castellarnau (Spain, Italy)

17

Human blood group B-active ganglio-glycosphingolipid in rat glioma

K. Suetake, S. Gasa, T. Taki, M. Chiba, T. Yamaki, Y. Ibayashi and K. Hashi (Japan)

25

Rapid stimulation of apolipoprotein B secretion by oleate is not associated with cholesteryl ester biosynthesis in HepG2 cells

S. Furukawa and T. Hirano (Japan)

32

Effect of nitrogen dioxide inhalation on surfactant phosphatidylcholine synthesis in rat alveolar type II cells

B. Müller and P. von Wichert (Germany)

38

Purification of peroxisomes and subcellular distribution of enzyme activities for activation and oxidation of very-long-chain fatty acids in rat brain

I. Singh, O. Lazo and K. Kremser (USA)

44

Galactocerebrosidase from human urine: purification and partial characterization

Y.Q. Chen and D.A. Wenger (USA)

53

Early catalytic steps of *Euglena gracilis* chloroplast type II fatty acid synthase

L.M.S. Worsham, S.G. Williams and M.L. Ernst-Fonberg (USA)

62

Synthesis and use of novel fluorescent glycosphingolipids for estimating β -glucosidase activity in vitro in the absence of detergents and subtyping Gaucher disease variants following administration into intact cells

V. Agmon, S. Cherbu, A. Dagan, M. Grace, G.A. Grabowski and S. Gatt (Israel, USA)

72

Delayed effects of early nutrition with cholesterol plus saturated or polyunsaturated fatty acids on intestinal morphology and transport function in the rat

A.B.R. Thomson, M. Keelan, T. Cheng and M.T. Clandinin (Canada)

80

Purification of a human cytochrome P-450 isozyme catalyzing lanosterol 14 α -demethylation

Y. Sonoda, M. Endo, K. Ishida, Y. Sato, N. Fukusen and M. Fukuhara (Japan)

92

Preface

vii

Review

Enzymes catalysing the hydrolysis of retinyl esters
E.H. Harrison (USA)

99

Regular Papers

Acyl-binding/lipid-transfer proteins from rape seedlings, a novel category of proteins interacting with lipids

J. Østergaard, C. Vergnolle, F. Schoentgen and J.-C. Kader (France)

109

Substrate and hormone regulation of palmitoyl-CoA synthetase in 7800 C1 Morris hepatoma cells and cultured rat hepatocytes

P. Wu, S. Skrede, E. Hvattum and J. Bremer (Norway)

118

Purification and characterization of a phospholipase A₂ from human ileal mucosa

T. Minami, H. Tojo, Y. Shinomura, Y. Matsuzawa and M. Okamoto (Japan)

125

continued

- Isolation and characterization of a novel glucuronosyl diacylglycerol from *Mycobacterium smegmatis*
B.A. Wolucka, M.R. McNeil, L. Kalbe, C. Cocito and P.J. Brennan (Belgium, USA) 131
- Studies to determine if rat liver contains chain-length-specific acyl-CoA 6-desaturases
M. Geiger, B.S. Mohammed, S. Sankarappa and H. Sprecher (USA) 137
- Two independent macrophage receptors for acetylated high-density lipoprotein
A. Miyazaki, M. Sakai, E. Yamaguchi, Y.-I. Sakamoto, M. Shichiri and S. Horiuchi (Japan) 143
- Effect of various $n-3/n-6$ fatty acid ratio contents of high fat diets on rat liver and heart peroxisomal and mitochondrial β -oxidation
J. Vamecq, L. Vallee, P.L. De la Porte, M. Fontaine, D. De Craemer, C. Van den Branden, H. Lafont, R. Grataroli and G. Nalbone (France, Belgium) 151
- The potential for platelet-activating factor synthesis in brain: properties of cholinephosphotransferase and 1-alkyl-*sn*-glycero-3-phosphate acetyltransferase in microsomal fractions of immature rabbit cerebral cortex
R.R. Baker and H.-y. Chang (Canada) 157
- The low-density lipoprotein receptor and cholesterol synthesis are affected differently by dietary cholesterol in the rat
P.D. Roach, S. Balasubramaniam, F. Hirata, M. Abbey, A. Szanto, L.A. Simons and P.J. Nestel (Australia) 165
- Influence of linoleic acid on desaturation and uptake of deuterium-labeled palmitic and stearic acids in humans
E.A. Emken, R.O. Adlof, W.K. Rohwedder and R.M. Gulley (USA) 173
- Stimulation of Fe^{2+} -induced lipid peroxidation in phosphatidylcholine liposomes by aluminium ions at physiological pH
T. Ohyashiki, T. Karino and K. Matsui (Japan) 182
- Ether lipid synthesis: purification and identification of alkyl dihydroxyacetone phosphate synthase from guinea-pig liver
A.W.M. Zomer, W.F.C. De Weerd, J. Langeveld and H. Van den Bosch (Netherlands) 189
- Control of maize lipid transfer protein activity by oxido-reducing conditions
M. Grosbois, F. Guerbette, A. Jolliot, F. Quintin and J.-C. Kader (France) 197
- Regulation of isoprenoid metabolism in rat liver: near constant chain lengths of dolichyl phosphate and ubiquinone are maintained during greatly altered rates of cholesterologenesis
R.K. Keller and F. Vilsaint (USA) 204
- Short Sequence-Paper*
- Nucleotide sequence encoding a novel member of the hydratase/dehydrogenase family
T. Mantamadiotis, P. Sobieszczuk, J. Weinstock and G.S. Baldwin (Australia) 211
- Editorial* v
- Review*
- Mammalian non-pancreatic phospholipases A_2
I. Kudo, M. Murakami, S. Hara and K. Inoue (Japan) 217
- Regular Papers*
- Luteal phase-characteristic induction of I^3SO_3^- GalCer in human cervical epithelia and uterine endometria, and follicular phase-characteristic formation of a ganglioside-derived negative charge gradient in different regions of fallopian tubes
K. Takamatsu, K. Kamei, K. Kubushiro, K. Kiguchi, S. Nozawa and M. Iwamori (Japan) 232
- Hormonal regulation of cholinephosphate cytidyltransferase in human fetal lung
A. Sharma, L.W. Gonzales and P.L. Ballard (USA) 237
- cis*-9,*cis*-15-Octadecadienoic acid: a novel fatty acid found in higher plants
A. Shibahara, K. Yamamoto, K. Shinkai, T. Nakayama and G. Kajimoto (Japan) 245
- Pyruvate stimulates hormonal induction of lipogenic enzymes in primary cultured rat hepatocytes
Y. Tomita, S. Abraham, C. Noda and A. Ichihara (Japan) 253
- Studies on the subcellular distribution of 1-*O*-alkyl-2-acetyl-*sn*-glycero phosphocholine (PAF) and on the enzymic activities involved in its biosynthesis within the ciliate *Tetrahymena pyriformis*
D.C. Tsoukatos, A.D. Tselepis and M.E. Lekka (Greece) 258
- Effect of development and nutritional state on the uptake, metabolism and release of free and acetyl-L-carnitine by the rodent small intestine
C.J. Gross and D.A. Savaiano (USA) 265
- Arachidonate-containing triacylglycerols: biosynthesis and a lipolytic mechanism for the release and transfer of arachidonate to phospholipids in HL-60 cells
M.L. Blank, Z.L. Smith and F. Snyder (USA) 275

Biosynthesis and shedding of murine lymphoma gangliosides <i>R. Li, D. Gage and S. Ladisch (USA)</i>	283	Effects of selenium supplement on the de novo biosynthesis of glycerolipids in the isolated rat heart <i>S.-Y. Liu, P.G. Tardi, P.C. Choy and R.Y.K. Man (Canada)</i>	307
Linoleic acid controls neonatal tissue-specific stearyl-CoA desaturase mRNA levels <i>J.W. DeWille and S.J. Farmer (USA)</i>	291	Type II phospholipase A ₂ in human gestational tissues: extractable immuno- and enzymatic activity in fetal membranes <i>M.A. Aitken, W. Farrugia, M.H. Wong, K.F. Scott, S.P. Brennecke and G.E. Rice (Australia)</i>	314
Effect of vitamin E on arachidonic acid-release in rat peritoneal macrophages <i>W. Sakamoto, K. Fujie, J. Nishihira and H. Handa (Japan)</i>	296		
Lipoxygenase in soybean seedlings catalyzes the oxygenation of phospholipid and such activity changes after treatment with fungal elicitor <i>Y. Kondo, Y. Kawai, T. Hayashi, M. Ohnishi, T. Miyazawa, S. Itoh and J. Mizutani (Japan)</i>	301	<i>Cumulative Contents, Vol. 1170</i>	321
		<i>Author Index</i>	324

